

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	149132	collector same emitter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:29
L2	9062	electron\$1 near tunnel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:29
L3	525	I1 and I2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:29
L4	420	I3 and (insulator or insulating or dielectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:30
L5	20	I4 and (thermotunnel\$3 or thermo-tunnel\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:30
L6	1249	257/9,104,106,e29.042,e29.339. ccls. 438/979.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:49
L7	2	I5 and I6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:49
L8	0	I7 and (@ad<"20021127" @rlad<"20021127")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:50

## EAST Search History

L9	9	I5 and (@ad<"20021127" @rlad<"20021127")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:50
S1	2	"20040189141"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 21:29
S2	1053	(tunnel near diode) and (collector and emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:44
S3	26	thermotunnel\$3 and (collector and emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:45
S4	0	thermaltunnel\$3 same (collector and emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:45
S5	20	thermotunnel\$3 same (collector and emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:45
S6	4	"6876123"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:54
S7	13	"6720704"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 13:54

## EAST Search History

S8	233	257/46.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 18:31
S9	4	"6876123"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 18:37
S10	13	"3,169,200"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 18:49
S11	10	(thermotunnel thermaltunneling) and collector and emitter and @ad<"20021127"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 18:51
S12	29	thermotunnel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/27 18:51
S13	4	"6876123"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:47
S14	15	("20030042819"   "2510397"   "3169200"   "3173032"   "3821462"   "4188571"   "4373142"   "4667126"   "5994638"   "6064137"   "6489704").PN. OR ("6876123"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 16:42
S15	3	("3,173,032").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/28 16:46

## EAST Search History

S16	2	("6,971,165").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/28 16:48
S17	2	("6,869,855").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/28 16:51
S18	3	("6,720,704").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/28 17:11
S19	2	("6531703").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/28 17:11
S20	26	("2980819"   "3138725"   "3194989"   "3202843"   "3218196"   "3470393"   "3551727"   "3558935"   "3793542"   "3843896").PN. OR ("4373142"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 17:38
S21	0	"50 .ang." and thermo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:47
S22	0	"50.ang." and thermo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:47
S23	0	".ang." and thermo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:47

## EAST Search History

S24	0	".ang."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:48
S25	9209	"50 angstrom"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 18:48
S26	5	"50 angstrom" and thermotunnel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/29 17:55
S27	12	(("3169200") or ("2001046749") or ("6417060") or ("6720704")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/29 17:56
S28	4	(("3169200") or ("2001046749") or ("6417060") or ("6720704")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/29 17:57
S29	0	("wo9910688").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/29 17:57
S30	0	(wo99/10688).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/29 17:57
S31	4	("9910688").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/29 18:00
S32	2	("6417060").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/29 18:00

## EAST Search History

S33	146832	collector same emitter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:04
S34	8464	electron\$1 near tunnel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:04
S35	494	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:04
S36	394	S35 and (insulator or insulating or dielectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:05
S37	19	S36 and (thermotunnel\$3 or thermo-tunnel\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:05
S38	1202	257/9,104,106,e29.042,e29.339. ccls. 438/979.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:05
S39	23642449	@ad<"20021127" @rlad<"20021127"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:06
S40	31183990	@pd<"20021127"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 17:06

## EAST Search History

S41	9	S37 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 18:06
S42	2	("6806629").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/07 18:06
S43	33	("4448799"   "4511593"   "4556471"   "4620913"   "4622452"   "4640744"   "5028546"   "5294322"   "5458754"   "5562781"   "5614353"   "5675972"   "5679895"   "5712488"   "5713775"   "5722242"   "5777427"   "5874039"   "5959400"   "5981071"   "5984752"   "5994638"   "6039471"   "6055815"   "6064137"   "6066399"   "6103298"   "6132278"   "6139964"   "6204595"   "6214651"   "6229083"   "6278231").PN. OR ("6806629"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 18:06
S44	20	("5356484"   "5569973"   "5598052").PN. OR ("5675972"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 18:08
S45	4	("5254178"   "5675972"   "5777427"   "6396191").PN. OR ("7003962").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 18:17

## EAST Search History

S46	68	("3173032"   "3267608"   "3328611"   "3515908"   "3579031"   "3843896"   "3890161"   "3899696"   "3983423"   "4040903"   "4047093"   "4151438"   "4188571"   "4266179"   "4280074"   "4281280"   "4298768"   "4303845"   "4323808"   "4346330"   "4368416"   "4373142"   "4528417"   "4667126"   "4700099"   "4755350"   "4771201"   "4927599"   "5028835"   "5327038"   "5459367"   "5492570"   "5541464"   "5572042"   "5578886"   "5623119"   "5637946"   "5646474"   "5722242"   "5780954"   "5841219"   "5955772"   "5973259"   "5981071"   "5994638"   "6020671"   "6022637"   "6037697"   "6203939").PN. OR ("6396191").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:01
S47	23642449	@ad<"20021127" @rlad<"20021127"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 23:02
S48	5595	electrode same (insulator) and cooling and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:02
S49	50	electrode same (insulator) and cooling.ti. and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:05
S50	127	electrode same (insulator) and cooling and tunneling with electron and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:05
S51	176	electrode same (insulator) and cooling and (tunneling tunnel) with electron and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:07
S52	165	electrode same (insulator) and cooling and (tunneling tunnel) with electron and S47 and (vacuum gap)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:07
S53	51	electrode same (insulator) same (vacuum gap) and cooling and (tunneling tunnel) with electron and S47 and (vacuum gap)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:07
S54	51	electrode same (insulator) same (vacuum gap) and cooling and (tunneling tunnel) with electron and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 23:08

## EAST Search History

S55	4	"3169200".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/09 15:16
S56	1	"20030168957".pn. and metal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/09 15:16